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60/136.703 **28 May 1999 (28.05.1999)** **US**
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(54) Title: **APPARATUS AND METHOD FOR ANALYZING A FLUID SAMPLE**

(57) Abstract: A cartridge for separating a desired analyte from a fluid sample has a sample flow path and a lysing chamber (86) in the sample flow path. The lysing chamber contains at least one filter for capturing cells or viruses from the sample as the sample flows through the lysing chamber. Beads are also disposed in the lysing chamber for rupturing the cells or viruses to release the analyte therefrom. An analyte flow path extends from the lysing chamber and diverges from the sample flow path. The analyte flow path preferably leads to a reaction chamber for chemically reacting and optically detecting the analyte. The cartridge also includes at least one flow controller (e.g., valves) for directing the sample into the waste chamber after the sample flows through the lysing chamber and for directing the analyte separated from the sample into the analyte flow path.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 5 652 141 A (HENCO KARSTEN ET AL) 29 July 1997 (1997-07-29)	
A	US 5 374 522 A (MURPHY KATHLEEN A ET AL) 20 December 1994 (1994-12-20) claims	
A	WO 99 09042 A (CEPHEID) 25 February 1999 (1999-02-25) claims	1



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Date of the actual completion of the international search

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Information on patent family members

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